

ABSTRACT OF THE DISCLOSURE

The invention relates to a system for detecting the rotational motion of a shaft in a machine housing, comprising a measuring transmitter, which is connected to the shaft, at least one measuring sensor, which is provided on the machine housing, and a measuring transducer connected to a measuring sensor. The invention is characterized in that the measuring sensor(s) (8 and 15 to 20) is/are supplied with current by a separate energy accumulator (11).